

ABSTRACT

[0050] Dense, highly stable, high performance ballistic material comprises at least one woven layer of ballistic grade fiber (preferably a stack of such layers) and at least one nonwoven layer of fabric which is entangled with the woven or unidirectional layer by needle felting. The resulting core material does not require assembly of individual woven layers during subsequent manufacture of ballistic articles and exhibits excellent ballistic performance at low areal densities and thicknesses.